

**Supplementary Appendix:**

**Supplementary text 1:** Search Strategy

**Supplementary Figure 1:** Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients across various geographical regions

**Supplementary Figure 2:** Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients depending on the study design

**Supplementary Figure 3:** Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients across different follow-up periods

**Supplementary Figure 4:** Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients based on mode of interview

**Supplementary Figure 5:** Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients based on the measurement tool used to diagnose PTSD

**Supplementary Figure 6:** Funnel plot showing the publication bias (N=13)

**Supplementary Figure 7:** Doi Plot and LFK index assessing the publication bias (N=13)

**Supplementary Figure 8:** Sensitivity analysis results

## Supplementary text 1: SEARCH STRATEGY

Prevalence of post-traumatic stress disorder among severe COVID-19 patients: a systematic review and meta-analysis

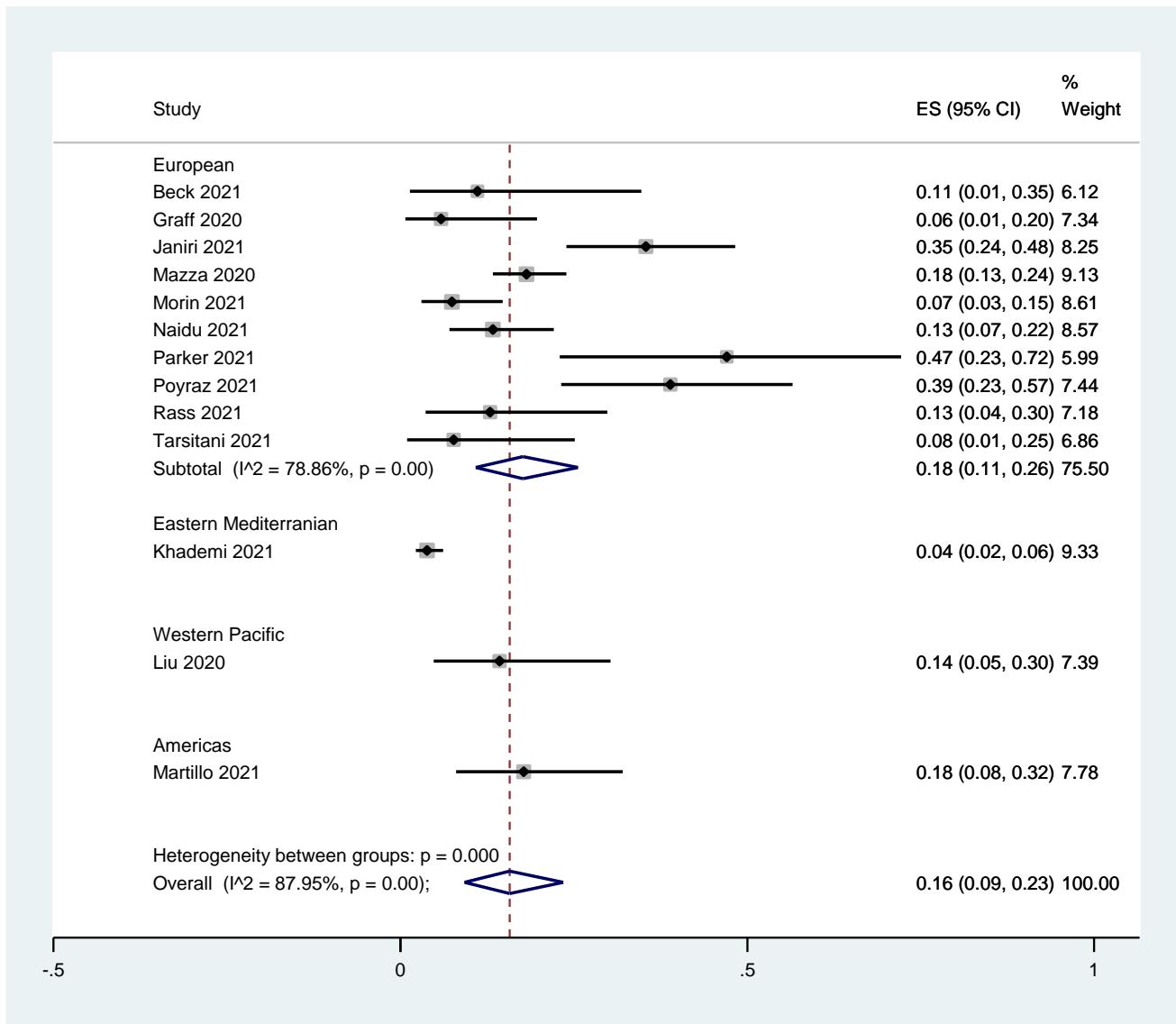
### PUBMED

S.No	Search Terms	Results
#1	Search: <b>COVID-19</b> "covid 19"[All Fields] OR "covid 19"[MeSH Terms] OR "covid 19 vaccines"[All Fields] OR "covid 19 vaccines"[MeSH Terms] OR "covid 19 serotherapy"[All Fields] OR "covid 19 serotherapy"[Supplementary Concept] OR "covid 19 nucleic acid testing"[All Fields] OR "covid 19 nucleic acid testing"[MeSH Terms] OR "covid 19 testing"[All Fields] OR "covid 19 serological testing"[All Fields] OR "covid 19 serological testing"[MeSH Terms] OR "covid 19 testing"[All Fields] OR "covid 19 testing"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[MeSH Terms] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "ncov"[All Fields] OR "2019 ncov"[All Fields] OR ("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields] OR "cov"[All Fields]) AND 2019/11/01:3000/12/31[Date - Publication])	<b>137,588</b>
#2	Search: (((((((Stress Disorders, Post-Traumatic[MeSH Major Topic]) OR (post traumatic stress disorder[Title/Abstract])) OR (post traumatic stress syndrome[Title/Abstract])) OR (PTSD[Title/Abstract])) OR (PTSS[Title/Abstract])) OR (Posttraumatic stress disorder[Title/Abstract])) OR (post-traumatic stress disorder[Title/Abstract])) OR (post traumatic stress disorder) OR (post traumatic stress syndrome)) OR (PTSD) OR (PTSS) "stress disorders, post traumatic"[MeSH Major Topic] OR "post traumatic stress disorder"[Title/Abstract] OR "post traumatic stress syndrome"[Title/Abstract] OR "PTSD"[Title/Abstract] OR "PTSS"[Title/Abstract] OR "posttraumatic stress disorder"[Title/Abstract] OR "post traumatic stress disorder"[Title/Abstract] OR ("stress disorders, post traumatic"[MeSH Terms] OR ("stress"[All Fields] AND "disorders"[All Fields] AND "post-traumatic"[All Fields]) OR "post-traumatic stress disorders"[All Fields] OR ("post"[All Fields] AND "traumatic"[All Fields] AND "stress"[All Fields] AND "disorder"[All Fields]) OR "post traumatic stress disorder"[All Fields] OR ("stress disorders, post traumatic"[MeSH Terms] OR ("stress"[All Fields] AND "disorders"[All Fields] AND "post-traumatic"[All Fields]) OR "post-traumatic stress disorders"[All Fields] OR ("post"[All Fields] AND "traumatic"[All Fields] AND "stress"[All Fields] AND "syndrome"[All Fields]) OR "post traumatic stress syndrome"[All Fields]) OR ("stress disorders, post traumatic"[MeSH Terms] OR ("stress"[All Fields] AND "disorders"[All Fields] AND "post-traumatic"[All Fields]) OR "post-traumatic stress disorders"[All Fields] OR ("post"[All Fields] AND "prevalence"))[Title/Abstract]) OR ("retrospective studies"[MeSH Terms] OR "prospective studies"[MeSH Terms])) OR (cross sectional studies)[MeSH Terms] OR "prospective studies"[MeSH Terms] OR "epidemiology"[MeSH Subheading] OR "epidemiology"[All Fields] OR "prevalence"[All Fields] OR "prevalence"[MeSH Terms] OR "prevalence"[All Fields] OR "prevalences"[All Fields] OR "prevalence s"[All Fields] OR "prevalent"[All Fields] OR "prevalently"[All Fields] OR "prevalents"[All Fields])	<b>50,141</b>
#3	Search: (((Cross-Sectional Studies[MeSH Terms]) OR (Prospective Studies[MeSH Terms])) OR (Retrospective Studies[MeSH Terms])) OR (prevalence) "cross sectional studies"[MeSH Terms] OR "prospective studies"[MeSH Terms] OR "retrospective studies"[MeSH Terms] OR "epidemiology"[MeSH Subheading] OR "epidemiology"[All Fields] OR "prevalence"[All Fields] OR "prevalence"[MeSH Terms] OR "prevalence"[All Fields] OR "prevalences"[All Fields] OR "prevalence s"[All Fields] OR "prevalent"[All Fields] OR "prevalently"[All Fields] OR "prevalents"[All Fields])	<b>4,144,192</b>
#4	<b>#1 AND #2 AND #3</b>	<b>400</b>

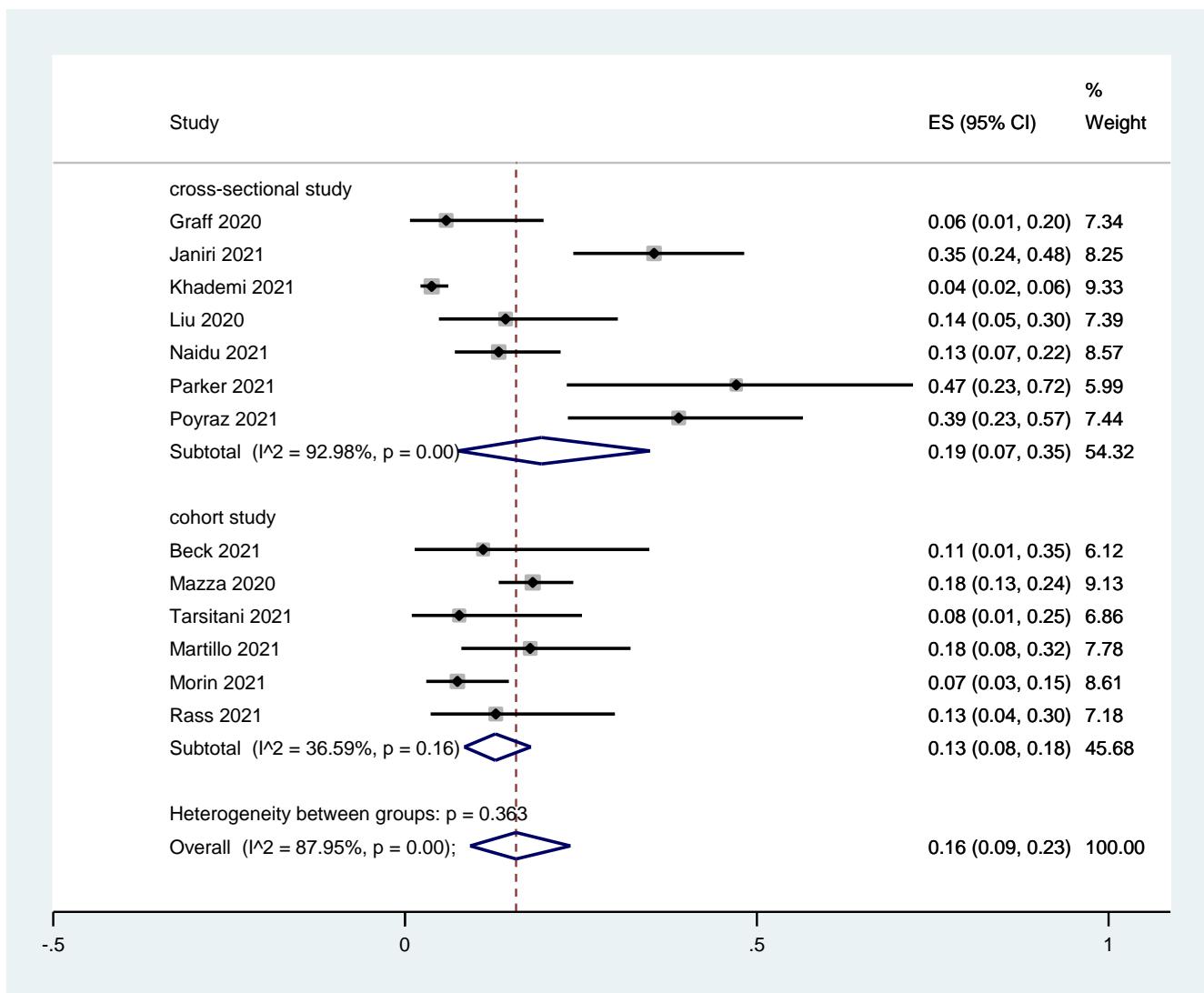
### EMBASE

S.No	Search Terms	Results
#1	('coronavirus disease 2019'/exp OR '2019 novel coronavirus disease' OR '2019 novel coronavirus epidemic' OR '2019 novel coronavirus infection' OR '2019-ncov disease' OR '2019-ncov infection' OR 'covid' OR 'covid 19' OR 'covid 19 induced pneumonia' OR 'covid 2019' OR 'covid-10' OR 'covid-19' OR 'covid-19 induced pneumonia' OR 'covid-19 pneumonia' OR 'covid19' OR 'sars coronavirus 2 infection' OR 'sars coronavirus 2 pneumonia' OR 'sars-cov-2 disease' OR 'sars-cov-2 infection' OR 'sars-cov-2 pneumonia' OR 'sars-cov2 disease' OR 'sarscov2 disease' OR 'sarscov2 infection' OR 'wuhan coronavirus disease' OR 'wuhan coronavirus infection' OR 'coronavirus disease 2' OR 'coronavirus disease 2010' OR 'coronavirus disease 2019' OR 'coronavirus disease 2019 pneumonia' OR 'coronavirus disease-19' OR 'coronavirus infection 2019' OR 'ncov 2019 disease' OR 'ncov 2019 infection' OR 'new coronavirus pneumonia' OR 'novel coronavirus 2019 disease' OR 'novel coronavirus 2019 infection' OR 'novel coronavirus disease 2019' OR 'novel coronavirus infected pneumonia' OR 'novel coronavirus infection 2019' OR 'novel coronavirus pneumonia' OR 'paucisymptomatic coronavirus disease 2019' OR 'severe acute respiratory syndrome 2' OR 'severe acute respiratory syndrome 2 pneumonia' OR 'severe acute respiratory syndrome cov-2 infection' OR 'severe acute respiratory syndrome coronavirus 2 infection' OR 'severe acute respiratory syndrome coronavirus 2019 infection') AND ('posttraumatic stress disorder/exp OR 'ptsd' OR 'ptsd (posttraumatic stress disorder)' OR 'post-traumatic stress' OR 'post-traumatic stress disorder' OR 'post-traumatic stress disorders' OR 'posttraumatic neurosis' OR 'posttraumatic psychic syndrome' OR 'posttraumatic psychosis' OR 'posttraumatic stress' OR 'posttraumatic stress disorder' OR 'posttraumatic syndrome' OR 'psychosis, posttraumatic' OR 'stress disorders, post-traumatic' OR 'stress disorders, traumatic' OR 'stress, posttraumatic' OR 'trauma and stressor related disorders' OR 'traumatic stress' OR 'traumatic stress disorder' OR 'traumatic stress disorders')	<b>1197</b>

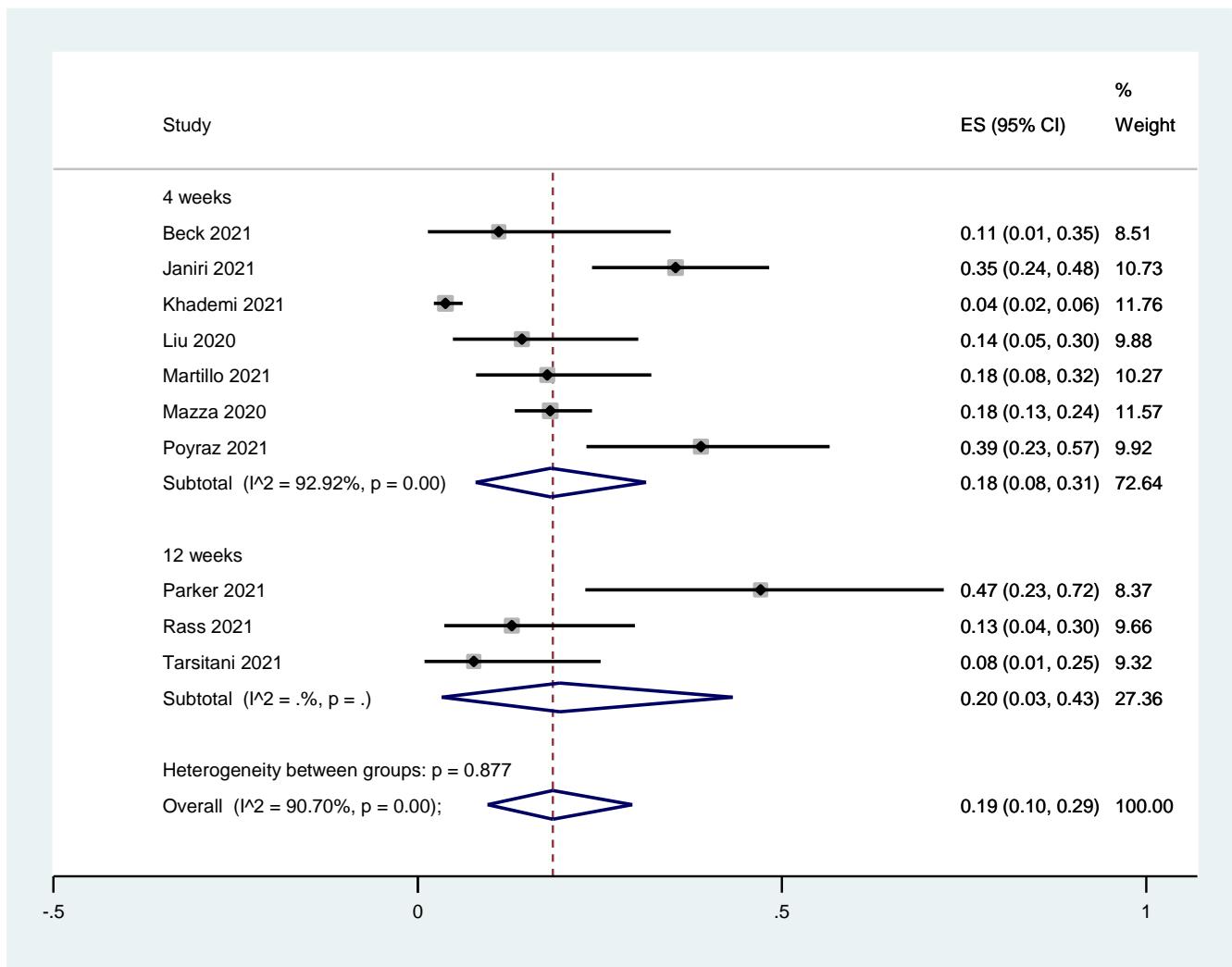
**Supplementary Figure 1: Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients across various geographical regions**



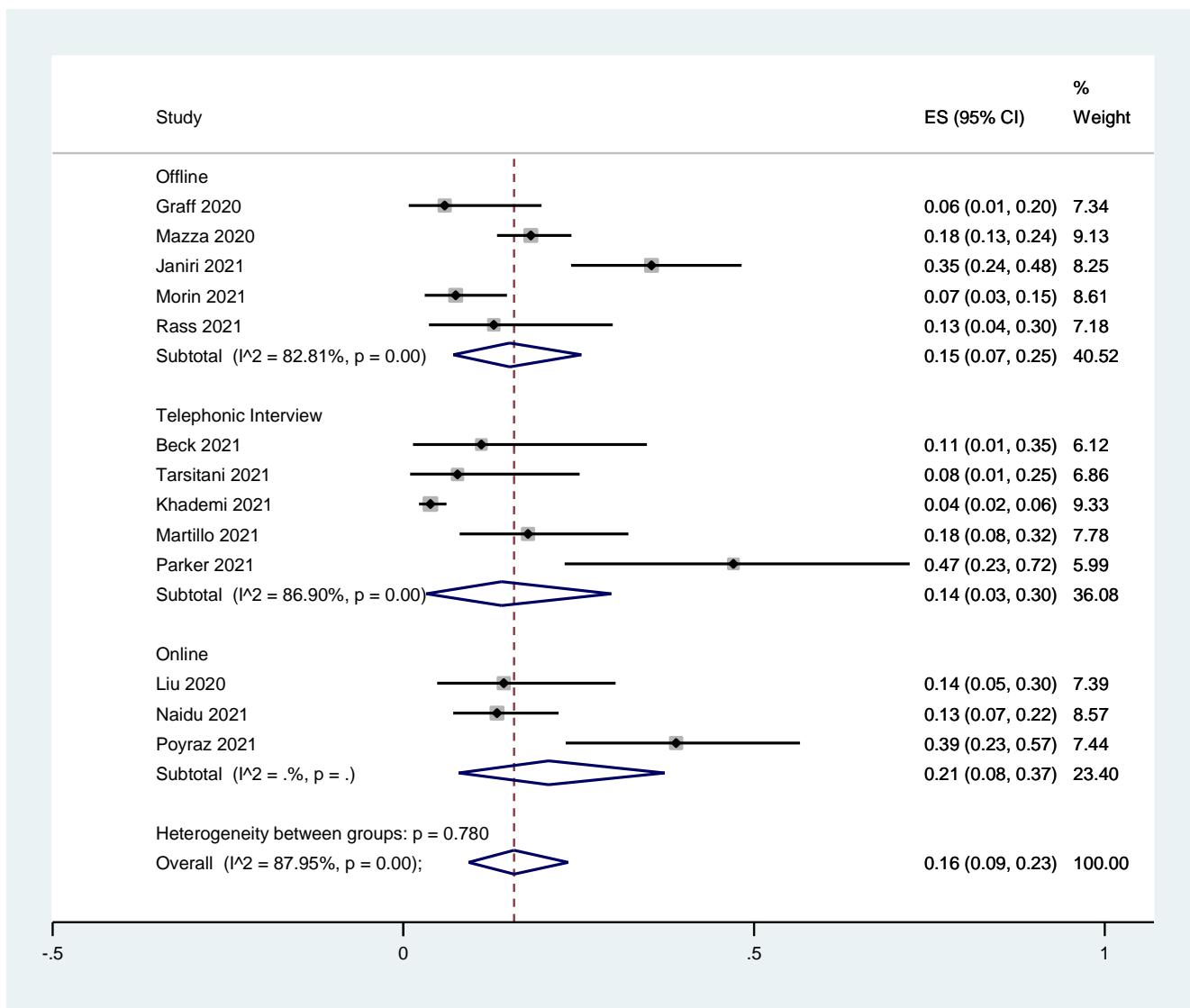
**Supplementary Figure 2: Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients depending on the study design**



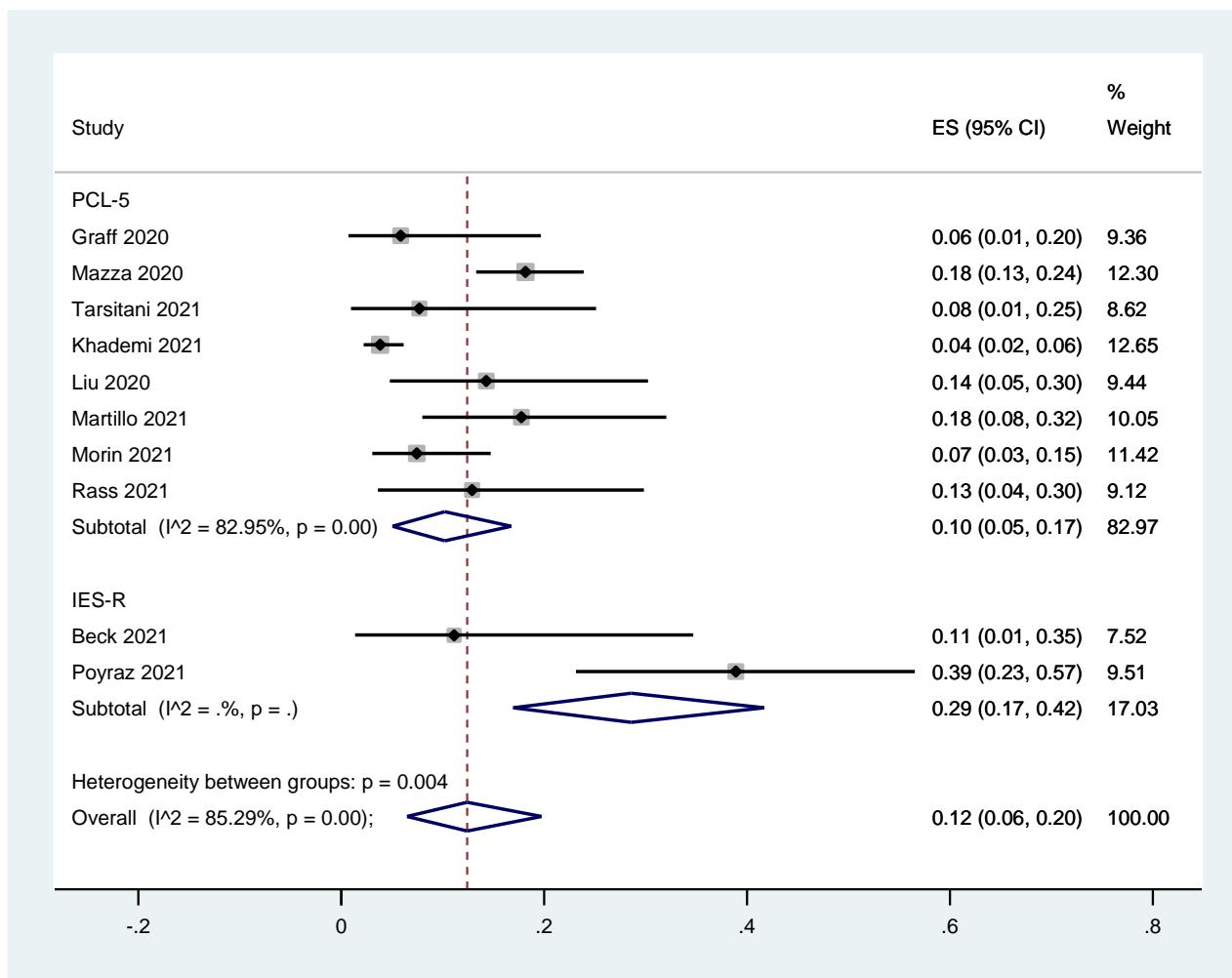
**Supplementary Figure 3: Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients across different follow-up periods**



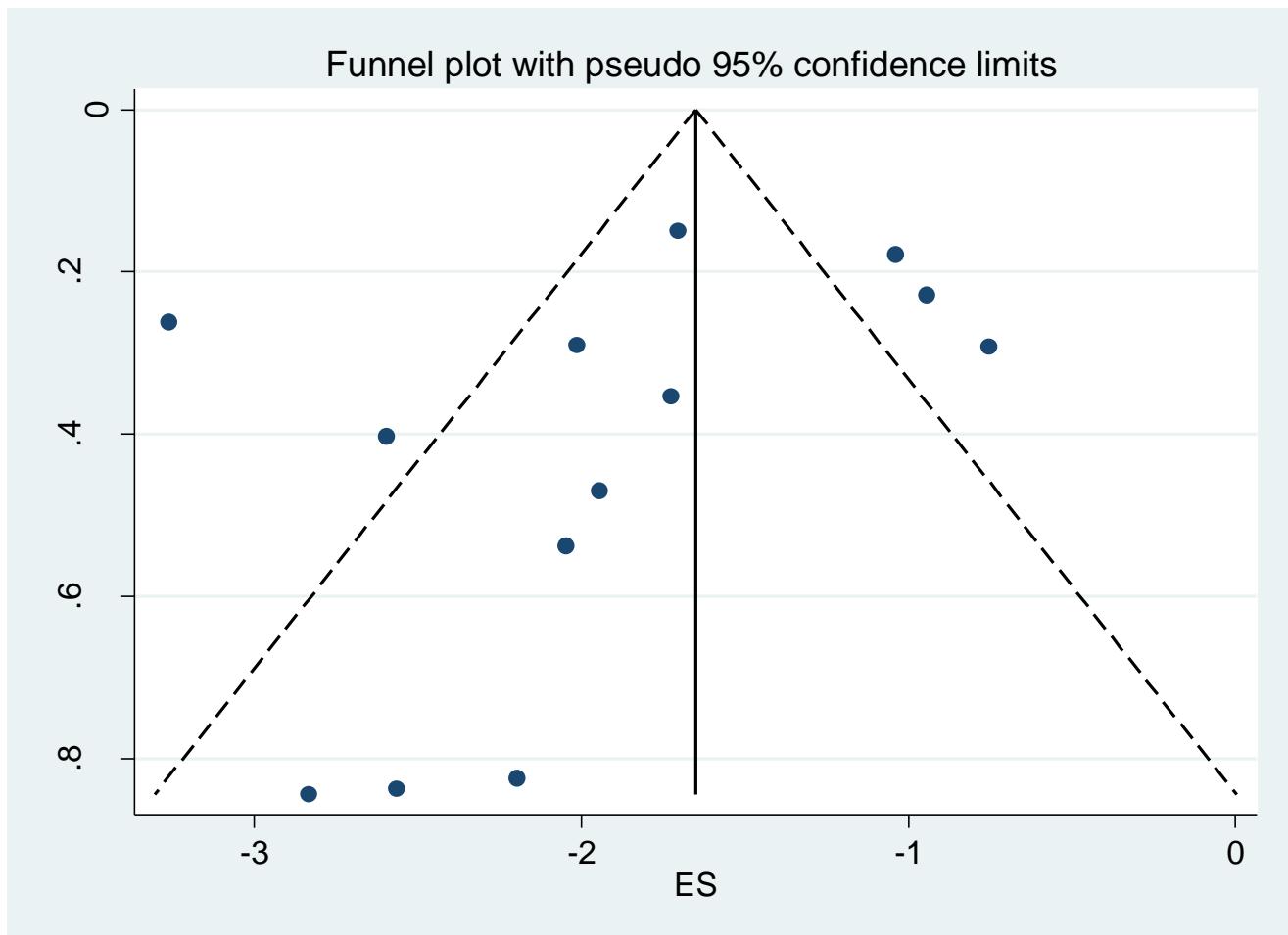
**Supplementary Figure 4: Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients based on mode of interview**



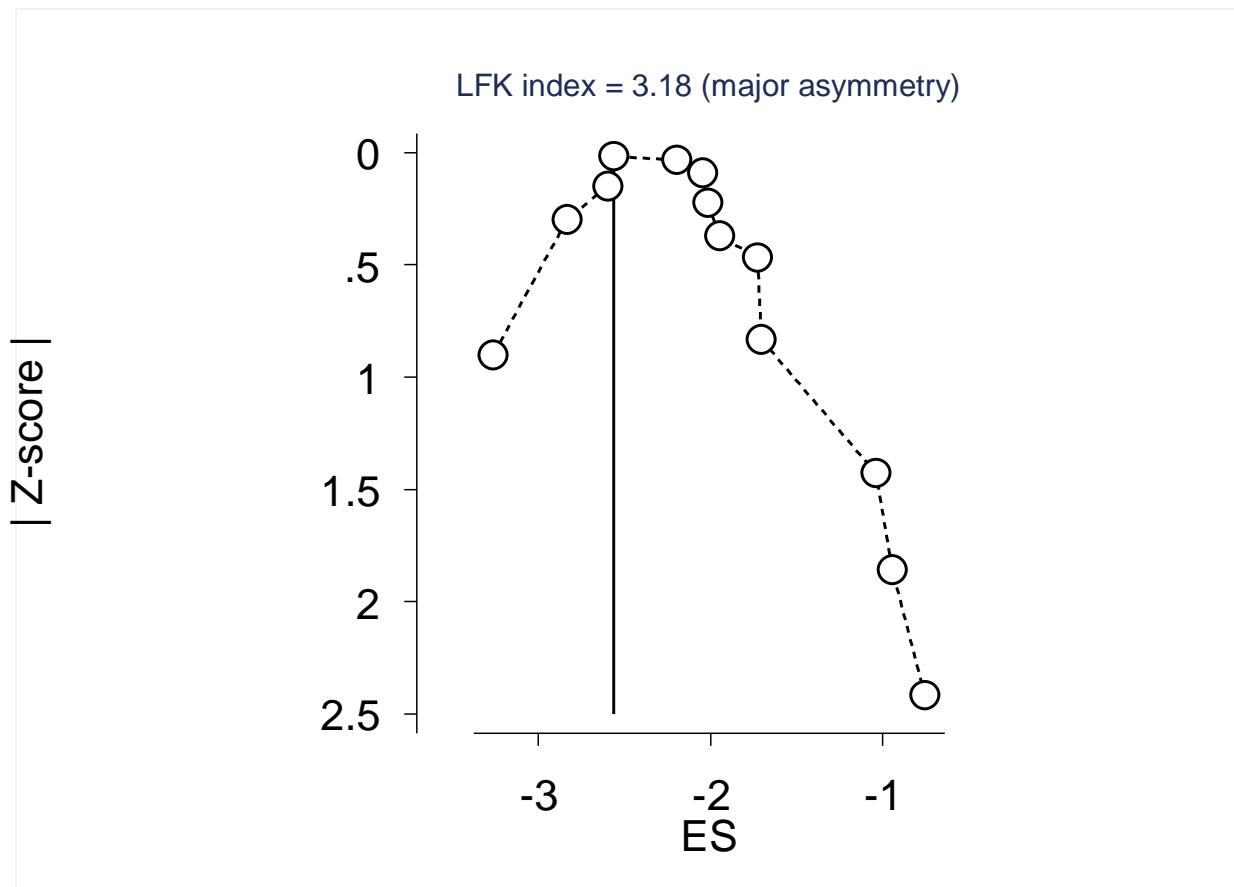
**Supplementary Figure 5: Forest plot showing the pooled prevalence of PTSD among severe COVID-19 patients based on the measurement tool used to diagnose PTSD**



**Supplementary Figure 6: Funnel plot showing the publication bias (N=13)**



**Supplementary Figure 7: Doi Plot and LFK index assessing the publication bias (N=13)**



### Supplementary Figure 8: Sensitivity analysis results (N=13)

